



SEQUENCE LISTING

<110> KITAMURA, TOSHIO
FUJIO, KEISHI

<120> CYTOKINE RECEPTOR-LIKE PROTEINS

<130> JP4335/K143

<140> JP4313,728

<141> 2001-08-17

<150> JP 1999-041936

<151> 1999-02-19

<160> 46

<170> PatentIn Ver. 2.1

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[illegible]
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\mathbf{Y} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
\mathbf{Z} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
\mathbf{W} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
\mathbf{V} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
\mathbf{U} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
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\mathbf{P} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
\mathbf{O} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
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\mathbf{I} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
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\mathbf{D} \sim \mathbf{N}(\mathbf{0}, \mathbf{I}) \\
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 Ala Ala Leu Leu Thr Leu Ser Leu Leu Leu Ala Ala Leu Arg Leu Arg
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 Arg Val Lys Asp Ala Leu Leu Pro Cys Val Pro Asp Pro Ser Gly Ser
 260 265 270
 Phe Pro Gly Leu Phe Glu Lys His His Gly Asn Phe Gln Ala Trp Ile
 275 280 285
 Ala Asp Ala Gln Ala Thr Ala Pro Pro Ala Arg Thr Glu Glu Glu Asp
 290 295 300
 Asp Leu Ile His Pro Lys Ala Lys Arg Val Glu Pro Glu Asp Gly Thr
 305 310 315 320
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 Met Ala Trp Ala Leu Ala
 1 5
 ctg atc ctg ctg tct ggg ctg ctt aag gag gca gag gag gag gag gag 165
 Val Ile Leu Leu Pro Arg Leu Leu Thr Ala Ala Ala Ala Ala Ala Ala
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 atg atg tta atg gaa gaa gaa gaa gaa gaa gaa gaa gaa gaa gaa 210
 Val Thr Ser Arg Gly Asp Val Thr Val Val Cys His Asp Leu Ala Thr
 25 31 35
 atg gag gtc aac taa taa taa gtc gaa gat gat gat gat gag gag aac tgg 215
 Val Val Val Thr Thr Gly Ser Gly His Asp His His Gly Ala Asn Leu
 41 45 51

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 Ser Leu Gly Phe Arg Tyr Gly Thr Gly Ala Leu Gln Pro Cys Pro Arg
 88 87 88
 tat ttc ttc tcc ggc gat ggt gtc acc tcc ggc tgc atc ctg ccc ggc 388
 Tyr Phe Leu Ser Gly Ala Gly Val Thr Ser Gly Cys Ile Leu Pro Ala
 78 80 88
 ggc agg ggc ggc ctg ctg gag ctg gca ctg ggc gac gga ggc ggc gcc 403
 Ala Arg Ala Gly Leu Leu Glu Leu Ala Leu Arg Asp Gly Gly Gly Ala
 90 95 100
 atg gtg ttt aag gct agg cag cgc ggc tcc gcc tgg ctg aag ccc cgc 451
 Met Val Phe Lys Ala Arg Gln Arg Ala Ser Ala Trp Leu Lys Pro Arg
 108 110 115
 cca cct tgg aat gtg aag ctg ctg tgg aca cca gac ggc gac gtg act 499
 Pro Pro Trp Asn Val Thr Leu Leu Trp Thr Pro Asp Gly Asp Val Thr
 120 125 130
 gtc tcc tgg cct gcc caa tcc tac ctg ggc ctg gac tac gag gtg cag 547
 Val Ser Trp Pro Ala His Ser Tyr Leu Gly Leu Asp Tyr Glu Val Gln
 135 140 145 150
 cag cgg gag agc aat gac gat gag gac gcc tgg cag acg acc tca ggc 595
 His Arg Glu Ser Asn Asp Asp Glu Asp Ala Trp Gln Thr Thr Ser Gly
 155 160 165
 ccc tgc tgt gac ttg aca gtg ggc ggc gcc acc ttc atg gtg ggc gac 643
 Pro Cys Cys Asp Leu Thr Val Gly Gly Ala Thr Phe Met Val Gly Asp
 170 175 180
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 Ser Gly Tyr Met Thr Leu
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 41 48

His His Gly Ala Asn Leu Ser Leu Gln Phe Arg Tyr Gly Thr Gly Ala
 85 86 87
 Leu Gln Pro Cys Phe Arg Tyr Phe Leu Ser Gly Ala Gly Val Thr Ser
 88 89 90
 Gly Cys Ile Leu Pro Ala Ala Arg Ala Gly Leu Leu Gln Leu Ala Leu
 91 92
 Arg Asp Gly Gly Gly Ala Met Val Phe Lys Ala Arg Gln Arg Ala Ser
 93 94
 Ala Trp Leu Lys Pro Arg Pro Pro Trp Asn Val Thr Leu Leu Trp Thr
 95 96
 Pro Asp Gly Asp Val Thr Val Ser Trp Pro Ala His Ser Tyr Leu Gly
 97 98
 Leu Asp Tyr Glu Val Gln His Arg Glu Ser Asn Asp Asp Glu Asp Ala
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Asn Glu Asp Ile Lys Ala Asp Leu Ile Leu Thr Ser Thr Ala Pro Glu
35 40 45

His Leu Ser Ala Pro Thr Leu Pro Leu Pro Glu Val Gln Cys Phe Val
50 55 60

Phe Asn Ile Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro
65 70 75 80

Gln Ala Thr Asn Leu Thr Leu His Tyr Arg Tyr Lys Val Ser Asp Asn
85 90 95

Asn Thr Phe Gln Glu Cys Ser His Tyr Leu Phe Ser Lys Glu Ile Thr
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Val Val Gln Leu Gln Asp Pro Gln Lys Pro Gln Arg Arg Ala Val Gln
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Lys Leu Asn Leu Gln Asn Leu Val Ile Pro Arg Ala Pro Glu Asn Leu
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Thr Leu Ser Asn Leu Ser Glu Ser Gln Leu Glu Leu Arg Trp Lys Ser
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Arg His Ile Lys Glu Arg Cys Leu Gln Tyr Leu Val Gln Tyr Arg Ser
180 185 190

Asn Arg Asp Arg Ser Trp Thr Glu Leu Ile Val Asn His Glu Pro Arg
195 200 205

Phe Ser Leu Leu Ser Val Asp Ala Val Lys Arg Tyr Ser Phe Arg Val
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20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Thr Asp Val Ser Val Val Glu Ile Glu Ala
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Asn Asn Lys Lys Pro Cys
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<Q23> Description of Unknown Organism: Type 1 Cytokine
receptor

<Q10>

<Q11> Mod RES

<Q12> (19)..(38)

<Q23> Variable amino acid

<Q40> 31

Trp Lys Phe Lys Ile Pro Asn Pro Ser Lys Ser Leu Leu Phe Gln Asp
1 5 10 15

Gly Gly Lys Gly Leu Trp Pro Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn Asn Val Ser Pro Leu
 50 55 60

Thr Ile Gly Asp Pro Asn Ile Ile Arg Val
 65 70

*210> 33

*211> 4

*212> PRT

*213> Artificial Sequence

*220>

*223> Description of Artificial Sequence: Illustrative
 peptide

*400> 33

Leu Glu Val Leu

1

*210> 34

*211> 5

*212> PRT

*213> Artificial Sequence

*220>

*223> Description of Artificial Sequence: Illustrative
 peptide

*220>

*221> MOD_RES

*222> (3')

*223> Variable amino acid

*400> 34

Trp .er Xaa Trp Ser

1

5

*210> 35

*211> 230

*212> PRT

*213> Xaa residue

*400> 31

Met Ala Trp Ala Leu Ala Val Ile Leu Leu Pro Arg Leu Leu Thr Ala

1

1

11

15

Ala Ala Ala Ala Ala Ala Val Thr Ser Arg Gly Asp Val Thr Val Val

11

15

17

Cys His Asp Leu Gln Thr Val Glu Val Thr Trp Gly Ser Gly Pro Asp
 35 40 45
 His His Gly Ala Asn Leu Ser Leu Glu Phe Arg Tyr Gly Thr Gly Ala
 50 55 60
 Leu Gln Pro Cys Pro Arg Tyr Phe Leu Ser Gly Ala Gly Val Thr Ser
 65 70 75 80
 Gly Cys Ile Leu Pro Ala Ala Arg Ala Gly Leu Leu Glu Leu Ala Leu
 85 90 95
 Arg Asp Gly Gly Gly Ala Met Val Phe Lys Ala Arg Gln Arg Ala Ser
 100 105 110
 Ala Trp Leu Lys Pro Arg Pro Pro Trp Asn Val Thr Leu Leu Trp Thr
 115 120 125
 Pro Asp Gly Asp Val Thr Val Ser Trp Pro Ala His Ser Tyr Leu Gly
 130 135 140
 Leu Asp Tyr Glu Val Gln His Arg Glu Ser Asn Asp Asp Glu Asp Ala
 145 150 155 160
 Trp Gln Thr Thr Ser Gly Pro Cys Cys Asp Leu Thr Val Gly Gly Leu
 165 170 175
 Asp Pro Ala Arg Cys Tyr Asp Phe Arg Val Arg Ala Ser Pro Arg Ala
 180 185 190
 Ala His Tyr Gly Leu Glu Ala Gln Pro Ser Glu Trp Thr Ala Val Thr
 195 200 205
 Arg Leu Ser Gly Ala Ala Ser Ala Ala Ser Cys Thr Ala Ser Pro Ala
 210 215 220
 Pro Ser Pro Ala Leu Ala
 225 230

<210> 36

<211> 285

<212> PRT

<213> Mus musculus

<400> 36

Met Leu Lys Leu Leu Leu Ser Pro Arg Ser Phe Leu Val Leu Gln Leu
 1 5 10 15
 Leu Leu Leu Arg Ala Gly Trp Ser Ser Lys Val Leu Met Ser Ser Ala
 20 25 30
 Asn Glu Asp Ile Lys Ala Asp Leu Ile Leu Thr Ser Thr Ala Pro Glu
 35 40 45
 His Leu Ser Ala Pro Thr Leu Pro Leu Pro Glu Val Glu Cys Phe Val
 50 55 60

Phe Asn Ile Glu Tyr Met Asn Cys Thr Trp Asn Ser Ser Ser Glu Pro
 68 76 80
 Gln Ala Thr Asn Leu Thr Leu His Tyr Arg Tyr Lys Val Ser Asp Asn
 85 90 95
 Asn Thr Phe Gln Glu Cys Ser His Tyr Leu Phe Ser Lys Glu Ile Thr
 100 105 110
 Ser Gly Cys Gln Ile Gln Lys Glu Asp Ile Gln Leu Tyr Gln Thr Phe
 115 120 125
 Val Val Gln Leu Gln Asp Pro Gln Lys Pro Gln Arg Arg Ala Val Gln
 130 135 140
 Lys Leu Asn Leu Gln Asn Leu Val Ile Pro Arg Ala Pro Glu Asn Leu
 145 150 155 160
 Thr Leu Ser Asn Leu Ser Glu Ser Gln Leu Glu Leu Arg Trp Lys Ser
 165 170 175
 Arg His Ile Lys Glu Arg Cys Leu Gln Tyr Leu Val Gln Tyr Arg Ser
 180 185 190
 Asn Arg Asp Arg Ser Trp Thr Glu Leu Ile Val Asn His Glu Pro Arg
 195 200 205
 Phe Ser Leu Pro Ser Val Asp Glu Leu Lys Arg Tyr Thr Phe Arg Val
 210 215 220
 Arg Ser Arg Tyr Asn Pro Ile Cys Gly Ser Ser Gln Gln Trp Ser Lys
 225 230 235 240
 Trp Ser Gln Pro Val His Trp Gly Ser His Thr Val Glu Glu Asn
 245 250 255

02100 37
 02110 28
 02120 PRT
 02130 Mus musculus

04000 37
 Leu Leu Pro Cys Val Pro Asp Pro Ser Gly Ser Phe Pro Gly Leu Phe
 1 6 10 15
 Glu Lys His His Gly Asn Phe Gln Ala Trp Ile Ala
 20 25

02100 37
 02110 28
 02120 PRT
 02130 Mus musculus

04000 37
 Pro Lys Ala Lys Arg Val Glu Pro Glu Asp Gly Thr Ser Leu Cys Thr
 1 6 10 15

<210> 39
 <211> 18
 <212> PRT
 <213> Mus musculus

<400> 39
 Ile Trp Pro Gly Ile Pro Ser Pro Glu Ser Glu Phe Glu Gly Leu Phe
 1 5 10 15
 Thr Thr His Lys Gly Asn Phe Glu Leu Trp Leu Leu
 20 25

<210> 40
 <211> 16
 <212> PRT
 <213> Mus musculus

<400> 40
 Asp Pro Pro Ala His Leu Glu Val Leu Ser Glu Pro Arg Trp Ala Val
 1 5 10 15

<210> 41
 <211> 28
 <212> PRT
 <213> Mus musculus

<400> 41
 Leu Lys Cys His Ile Pro Asp Pro Ser Glu Phe Phe Ser Gln Leu Ser
 1 5 10 15
 Ser Gln His Gly Gly Asp Leu Gln Lys Trp Leu Ser
 20 25

<210> 42
 <211> 16
 <212> PRT
 <213> Mus musculus

<400> 42
 Pro Glu Ile Ser Pro Leu Glu Val Leu Asp Gly Asp Ser Lys Ala Val
 1 5 10 15

<210> 43
 <211> 14
 <212> PRT
 <213> Mus musculus

<400> 43
 Ile Trp Pro Asn Val Pro Asp PRT Ser Lys Ser His Ile Ala Glu Trp
 1 5 10 15

Ser Pro

<210> 44
 <211> 16
 <212> PRT
 <213> Mus musculus

<410> 44
 Thr Asp Val Ser Val Val Glu Ile Glu Ala Asn Asn Lys Lys Pro Cys
 1 5 10 15

<210> 45
 <211> 24
 <212> PRT
 <213> Mus musculus

<400> 45
 Trp Lys Glu Lys Ile Pro Asn Pro Ser Lys Ser Leu Leu Phe Gln Asp
 1 5 10 15

Gly Gly Lys Gly Leu Trp Pro Pro
 20

<210> 46
 <211> 16
 <212> PRT
 <213> Mus musculus

<400> 46
 Asn Asn Val Ser Pro Leu Thr Ile Glu Asp Pro Asn Ile Ile Arg Val
 1 5 10 15